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ATTORNEY DOCKET NO. 01173.0014U3 (formerly 25006.0005U3)
PATENT

GAU 1655
#4
ML

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)
)
 Paul M. Lizardi)
) Group Art Unit: Unassigned
 Serial No.: 09/853,379)
)
 Filed: May 11, 2001) Examiner: Unassigned
)
 For: **"MOLECULAR CLONING USING**)
 ROLLING CIRCLE AMPLIFICATION")

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

NEEDLE & ROSENBERG, P.C.
Suite 1200, The Candler Building
127 Peachtree Street, N.E.
Atlanta, Georgia 30303-1811

September 27, 2001

Sir:

Submitted herewith is a copy of a form PTO-1449 filed in the parent application (U.S. Serial No. 09/396,281) with the parent application's docket number, serial number, filing date and group art number (if assigned) struck through and those of the present application written in. Each of the references listed on the copy of the form PTO-1449 was submitted to the Examiner and is of record in the parent application. Thus, copies are not provided.

Also enclosed is a new form PTO 1449 listing documents cited by the Examiner in the prosecution of the parent application (Serial No. 09/396,281), and new references A2-A12 not previously cited. Each of the references listed were either submitted or cited by the Examiner and are of record in the priority application, thus copies of these documents are not provided with the exception of newly cited references A2-A12, copies of which are provided.

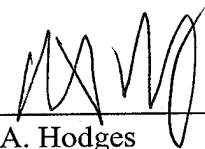
ATTORNEY DOCKET NO. 01173.0014U3 (formerly 25006.0005U3)
SERIAL NO.: 09/853,379

Consideration of the cited documents and making the same of record in the prosecution of the above-noted application are respectfully requested.

It is believed that this paper is being timely filed and that no fee is required for filing thereof. However, the Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-0629.

Respectfully submitted,

NEEDLE & ROSENBERG, P.C.

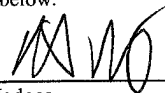


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CERTIFICATE OF MAILING

I hereby certify that this correspondence, along with any paper referred to as being attached or enclosed, is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on the date shown below.



Robert A. Hodges

9/27/01

Date



ATTORNEY DOCKET NO. 01173.0014U3 (formerly 25006.0005U3)
SERIAL NO. 09/853,379
Page 1 of 1

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 7-80) PATENT AND TRADEMARK OFFICE		ATTORNEY DOCKET NO.: 01173.0014U3		SERIAL NO. 09/853,379			
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT: Paul M. Lizardi					
		FILING DATE: May 11, 2001		GROUP: Unassigned			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	6,143,495	11/07/00	Lizardi <i>et al.</i>			
	A2	5,795,714	08/18/98	Cantor <i>et al.</i>			
FOREIGN PATENT DOCUMENTS							
	A3	WO 01/20039	03/22/01	Rothberg <i>et al.</i> (PCT)			
	A4	WO 99/53102	10/21/99	Taylor (PCT)			
	A5	GB 2332516	06/23/99	Sampson <i>et al.</i> (PCT)			
	A6	WO 98/39485	09/11/98	Makarov <i>et al.</i> (PCT)			
	A7	WO 98/14610	04/09/98	O'Neill <i>et al.</i> (PCT)			
	A8	WO 97/43447	11/20/97	Maracas <i>et al.</i> (PCT)			
	A9	WO 97/20948	06/12/97	Koch (PCT)			
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	A10	Chen <i>et al.</i> "Amplification of Closed Circular DNA <i>In Vitro</i> ," <i>Nucleic Acids Research</i> , 26(4):1126-1127 (February 1998)					
	A11	Lizardi <i>et al.</i> "Mutation Detection and Single-Molecule Counting Using Isothermal Rolling-Circle Amplification," <i>Nature Genetics</i> , 19(3):225-232 (July 1998)					
	A12	Zhang <i>et al.</i> "Amplification of Target-Specific, Ligation-Dependent Circular Probe," <i>Gene</i> , 211:277-285 (1998)					
EXAMINER:		DATE CONSIDERED:					
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Substitute for form 1449A/PTO

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number 09/396,281 09/853,379
Filing Date September 15, 1999 May 11, 2001
First Named Inventor Paul M. Lizardi
Group Art Unit 1643
Examiner Name
Attorney Docket Number YU-124 (OCR 847) 25006.0005U3

Sheet 1 of 16

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		4,748,111		Dattagupat, et al.	05-31-1988	
		4,883,750		Whiteley, et al.	12-28-1989	
		4,965,188		Mullis, et al.	10-23-1990	
		4,994,373		Stavrianopoulos, et al.	02-19-1991	
		5,001,050		Blanco, et al.	03-19-1991	
		5,043,272		Hartley	08-27-1991	
		5,130,238		Malek, et al.	07-14-1992	
		5,198,543		Blanco, et al.	03-30-1993	
		5,242,794		Norman, et al.	09-07-1993	
		5,273,638		Konrad, et al.	12-28-1993	
		5,328,824		Ward, et al.	07-12-1994	
		5,354,668		Auerbach	10-11-1994	
		5,409,818		Davey, et al.	04-25-1995	
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		5,427,930		Birkenmeyer, et al.	06-27-1995	
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		5,510,270		Fodor, et al.	04-23-1996	
		5,521,065		Whiteley, et al.	05-28-1996	
		5,547,843		Studier, et al.	08-20-1996	
		5,591,609		Auerbach	01-07-1997	
		5,614,389		Auerbach	03-25-1997	
		5,614,390		McCaslin, et al.	03-25-1997	
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		5,629,158		Uhlen	04-13-1997	
		5,629,179		Mierendorf, et al.	05-13-1997	
		5,714,320		Kool	02-03-1998	
		5,733,733		Auerbach	03-31-1998	
		5,854,033		Lizardi	12-29-1998	

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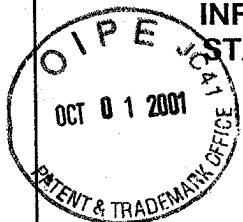
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Application Number **09/396,281 09/853,379**
Filing Date **September 15, 1999 May 11, 2001**
First Named Inventor **Paul M. Lizardi**
Group Art Unit **1643**
Examiner Name
Attorney Docket Number **YU 124(OCR 847) 25006.0005U3**

Sheet **2** of **16**

FOREIGN PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Office. ³	Number ⁴	Kind Code ⁵ (if known)				
		JP	4-262799	A		09-18-1992		
		JP	4-304900	A		10-28-1992		
		EP	84173/91	B	Syngene, Inc.	02-18-1992		
		EP	0128 332	A2	Enzo Biochem, Inc.	12-19-1984		
		EP	0356 021	A2	Imperial Chemical Ind. PLC	07-27-1989		
		EP	0439 182	B1	Abbott Laboratories	04-24-1996		
		EP	0466 520	A1	Life Technologies, Inc.	01-15-1992		
		EP	0505 012	A2	F. Hoffmann-La Roche AG	09-23-1992		
		EP	0667 393	A2	Enzo Diagnostics, Inc.	08-16-1995		
		EP	0678 582	A1	Becton Dickinson and Co.	10-25-1995		
		WO	91/80307	A1	Microprobe Corporation	06-13-1991		
		WO	92/01813 A1		Syngene, Inc.	02-06-1992		
		WO	94/24312 A2		Beckman Instruments, Inc.	10-27-1994		
		WO	95/03430 A1		Gen-Probe Incorporated	02-02-1995		
		WO	95/03432 A1		Bio-Rad Laboratories, Inc.	02-02-1995		
		WO	95/22623 A1		Landegren	08-24-1995		
		WO	95/25180 A1		Gen-Probe Inc.	09-21-1995		
		WO	95/35390 A1		Mount Sinai School of Medicine of the City University of New York	12-28-1995		
		WO	96/33207 A1		Glaxo Group Limited	10-24-1996		
		WO	97/19193 A2		Yale University	05-29-1997		
		WO	97/42346 A1		Tepnel Medical Ltd.	11-13-1997		

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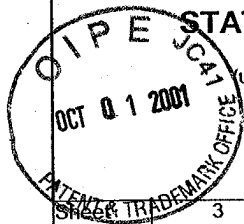
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Filing Date	September 15, 1999 May 11, 2001
First Named Inventor	Paul M. Lizardi
Group Art Unit	1643
Examiner Name	
Attorney Docket Number	YU-124(OCR-847) 25006-000543

OTHER ART - NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		ABRAVAYA, et al., "Detection of point mutations with a modified ligase chain reaction (Gap-LCR)," <i>Nucleic Acids Res.</i> 23(4):675-682 (1995).	
		ALIOTTA, et al., "Thermostable Bst DNA polymerase I lacks a 3'→5' proofreading exonuclease activity," <i>Genet Anal.</i> 12(5-6):185-95 (1996).	
		ALVES & CARR, "Dot blot detection of point mutations with adjacently hybridising synthetic oligonucleotide probes," <i>Nucl. Acids. Res.</i> 16:8723 (1988).	
		ARNOLD, et al., "Assay Formats Involving Acridinium-Ester-Labeled DNA Probes," <i>Clin. Chem.</i> 35(8): 1588-1594 (1989).	
		BARANY, "Genetic disease detection and DNA amplification using cloned thermostable ligase," <i>Proc. Natl. Acad. Sci. USA</i> 88: 189-193 (1991).	
		BEIER & HOHEISEL, "Versatile derivatisation of solid support media for covalent bonding on DNA-microchips," <i>Nucleic Acids Res.</i> 27(9):1970-7 (1999).	
		BERTINA et al., "Mutation in blood coagulation factor V associated with resistance to activated protein C," <i>Nature</i> 369: 64-67 (1994).	
		BIRKENMEYER & MUSHAHWAR, "DNA probe amplification methods," <i>Journal of Virological Methods</i> 35:117-126 (1991).	
		BLANCO & SALAS, "Characterization and purification of a phage ø29-encoded DNA polymerase required for the initiation of replication," <i>Proc. Natl. Acad. Sci.</i> 81:5325-5329 (1984).	
		BLANCO, et al., "Highly Efficient DNA Synthesis by the Phage ø29 DNA Polymerase," <i>Journal of Biological Chemistry</i> 264(15):8935-8940 (1989).	

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		Application Number	09/396,281- 09/853,379		
		Filing Date	September 15, 1999- May 11, 2001		
		First Named Inventor	Paul M. Lizardi		
		Group Art Unit	4643-		
		Examiner Name			
Sheet	4	of	16	Attorney Docket Number	YU 124(OCR 847) 25006.0005 u3

OTHER ART - NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T²
		BLANCO, et al., "Terminal protein-primed DNA amplification," <i>Proc. Natl. Acad. Sci.</i> 91:12198-202 (1994).	
		BOEHMER & LEHMAN, "Herpes Simplex Virus Type 1 ICP8: Helix-Destabilizing Properties," <i>Journal of Virology</i> 67(2):711-715 (1993).	
		BONALDO, et al., "Normalization and subtraction: two approaches to facilitate gene discovery," <i>Genome Res.</i> 6(9):791-806 (1996).	
		BROUDE, et al., "Enhanced DNA sequencing by hybridization," <i>Proc. Natl. Acad. Sci.</i> 91:3072-76 (1994).	
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		CHATTERJEE, et al., "Cloning and overexpression of the gene encoding bacteriophage T5 DNA polymerase," <i>Gene</i> 97:13-19 (1991).	
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		DAUBENDIEK & KOOL, "Generation of catalytic RNAs by rolling transcription of synthetic DNA nanocircles," <i>Nat Biotechnol.</i> 15(3):273-7 (1997).	
		DAUBENDIEK, et al., "Rolling-circle RNA synthesis: Circular oligonucleotides as efficient substrates for T7 RNA polymerase," <i>J. Am. Chem. Soc.</i> 117:7818-19 (1995).	

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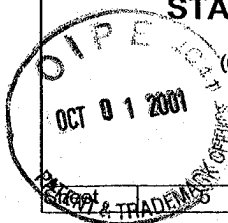
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		DAVANLOO, et al., "Cloning and expression of the gene for bacteriophage T7 RNA polymerase," <i>Proc. Natl. Acad. Sci. USA</i> 81:2035-2039 (1984).	
		DAVIS, et al., <i>Advanced Bacterial Genetics - A Manual for Genetic Engineering</i> (Cold Spring Harbor Laboratory, Cold Spring Harbor, N.Y., 1980)	
		DYNAL, <i>Biomagnetic Techniques in Molecular Biology</i> , 1995.	
		ERNST, et al., "Cyanine dye labeling reagents for sulfhydryl groups," <i>Cytometry</i> 10:3-10 (1989).	
		FIRE & XU, "Rolling replication of short DNA circles," <i>Proc. Natl. Acad. Sci. USA</i> 92:4641-4645 (1995).	
		GASPARRO, et al., "Site-specific targeting of psoralen photoadducts with a triple helix-forming oligonucleotide: characterization of psoralen monoadduct and crosslink formation," <i>Nucleic Acids Research</i> 22(14):2845-2852 (1994).	
		GERDES, et al., "Dynamic changes in the higher-level chromatin organization of specific sequences revealed by in situ hybridization to nuclear halos," <i>J. Cell Biol.</i> 126(2):289-304 (1994).	
		GUNJI, et al., "Correlation Between the Serum Level of Hepatitis C Virus RNA and Disease Activities in Acute and Chronic Hepatitis C," <i>Int. J. Cancer</i> 52(5):726-730 (1992).	
		GUO, et al., "Direct fluorescence analysis of genetic polymorphisms by hybridization with oligonucleotide arrays on glass supports," <i>Nucleic Acids Res.</i> 22(24):5456-5465 (1994).	
		GUO, et al., "Enhanced discrimination of single nucleotide polymorphisms by artificial mismatch hybridization," <i>Nature Biotechnology</i> 15:331-335 (1997).	

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Complete if Known

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Filing Date	September 15, 1999 May 11, 2001
First Named Inventor	Paul M. Lizardi
Group Art Unit	4643-
Examiner Name	
Attorney Docket Number	YU 124 (OCR 847) 25006.000513

OTHER ART - NON PATENT LITERATURE DOCUMENTS

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		GUPTA, et al., "Expression of HIV-1 RNA in plasma correlates with the development of AIDS: A multicenter AIDS cohort study," Ninth International Conference on AIDS/Fourth STD World Congress June 6-11, 1993, Berlin, Germany.	
		HACIA, et al., "Detection of heterozygous mutations in BRCA1 using high density oligonucleotide arrays and two-color fluorescence analysis," <i>Nature Genetics</i> 14:441-447.	
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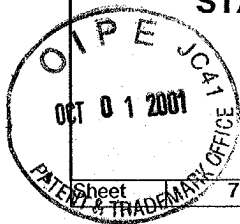
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Application Number	09/396,281- 09/853,379
Filing Date	September 15, 1999 May 11, 2001
First Named Inventor	Paul M. Lizardi
Group Art Unit	4643--
Examiner Name	
Attorney Docket Number	YU 124(OCR 847) 25006.000543

Sheet 7 of 16

OTHER ART - NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		HSUIH, et al., "Quantitative Detection of HCV RNA Using Novel Ligation-Dependent Polymerase Chain Reaction", <i>American Association for the Study of Liver Diseases</i> , (Chicago, IL, November 3-7, 1995) [poster abstract].	
		ITAKURA, et al., "Synthesis and Use of Synthetic Oligonucleotides," <i>Annual Review of Biochemistry</i> 53:323-356 (1984).	
		JACOBSEN, et al., "The N-Terminal Amino-Acid Sequences of DNA Polymerase I from <i>Escherichia coli</i> and of the Large and the Small Fragments Obtained by a Limited Proteolysis," <i>Eur. J. Biochem.</i> 45:623-627 (1974).	
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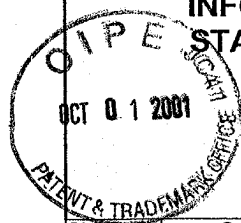
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	09/396,281 09/853,379
Filing Date	September 15, 1999 May 11, 2001
First Named Inventor	Paul M. Lizardi
Group Art Unit	1643
Examiner Name	
Attorney Docket Number	YU-124 (OCR 847) 25006.0005u3

Sheet 8 of 16

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		KAPLAN, et al., "Rapid photolytic release of adenosine 5'-triphosphate from a protected analogue: utilization by the Na:K pump of human red blood cell ghosts" <i>Biochem.</i> 17:1929-1935 (1978).	
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		LAMTURE, et al., "Direct detection of nucleic acid hybridization on the surface of a charge coupled device," <i>Nucl. Acids Res.</i> 22:2121-25 (1994).	

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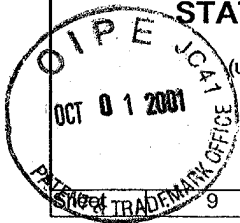
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Application Number	09/996,284- 09/853,379
Filing Date	September 15, 1999- May 11, 2001
First Named Inventor	Paul M. Lizardi
Group Art Unit	1643-
Examiner Name	
Attorney Docket Number	YU-124 (OCR 847) 25006.0005013

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		LANDEGREN, "Molecular mechanics of nucleic acid sequence amplification," <i>Trends Genetics</i> 9:199-202 (1993).	
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		LIZARDI, et al., "Cascade rolling circle amplification, a homogeneous fluorescence detection system for DNA diagnostics," <i>Clin. Chem.</i> 43: 2219-20 (1997).	
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		LOCKHART, et al., "Expression monitoring by hybridization to high-density oligonucleotide arrays," <i>Nature Biotechnology</i> 14:1675-1680 (1996).	

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		Filing Date	September 15, 1999 May 11, 2001		
		First Named Inventor	Paul M. Lizardi		
		Group Art Unit	1643-		
		Examiner Name			
Sheet	10	of	16	Attorney Docket Number	YU-124(OCR-847)-25006.000543

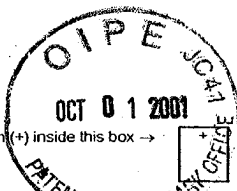
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		LU, et al., "High Concentration of Peripheral Blood Mononuclear Cells Harboring Infectious Virus Correlates with Rapid Progression of Human Immunodeficiency Virus Type 1-Related Diseases," <i>JID</i> 168(5):1165-8116 (1993).	
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Application Number	09/396,281 ¹ 09/853,379
Filing Date	September 15, 1999 May 11, 2001
First Named Inventor	Paul M. Lizardi
Group Art Unit	1643-
Examiner Name	
Attorney Docket Number	YU-424(OCR-847)-25006.000543

Sheet 11 of 16

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		MORETTI, et al., "Enhancement of PCR amplification yield and specificity using AmpliTaq Gold DNA polymerase," <i>Biotechniques</i> . 25(4):716-22 (1998).	
		MUJUMDAR, et al., "Cyanine dye labeling reagents containing isothiocyanate groups" <i>Cytometry</i> 10:11-19 (1989).	
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		NEWTON, et al., "Analysis of any point mutation in DNA. The amplification refractory mutation system (ARMS)," <i>Nucleic Acids Res.</i> 17(7):2503-16 (1989).	
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		NIELSEN, et al., "Peptide nucleic acids (PNAs): Potential anti-sense and anti-gene agents," <i>Anti-Cancer Drug Design</i> , 8: 53-63 (1993).	
		NIKIFOROV, et al., "The Use of Phosphorothioate Primers and Exonuclease Hydrolysis for the Preparation of Single-stranded PCR Products and their Detection by Solid-phase Hybridization," <i>PCR Methods and Applications</i> 3: 285-291 (1994).	
		NIKIFOROV, et al., "Genetic Bit Analysis: a solid phase method for typing single nucleotide polymorphisms," <i>Nucleic Acids Res.</i> 22(20):4167-75 (1994).	
		NILSSON, et al., "Padlock Probes: Circularizing Oligonucleotides for Localized DNA Detection," <i>Science</i> 265: 2085-2088 (1994).	
		NILSSON, et al., "Padlock probes reveal single-nucleotide differences, parent of origin and in situ distribution of centromeric sequences in human chromosomes 13 and 21," <i>Nat Genet.</i> 16(3):252-5 (1997).	

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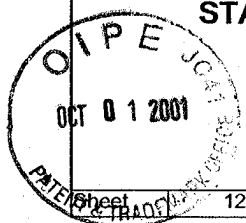
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	09/396,281 09/853,379
Filing Date	September 15, 1999 May 11, 2001
First Named Inventor	Paul M. Lizardi
Group Art Unit	4643
Examiner Name	
Attorney Docket Number	YU-124(OCR-847)-25006, 000543



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		ØRUM, et al., "Single base pair mutation analysis by PNA directed PCR clamping," <i>Nucleic Acids Research</i> 21(23):5332-5336 (1993).	
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		PEASE, et al., "Light-generated oligonucleotide arrays for rapid DNA sequence analysis," <i>Proc. Natl. Acad. Sci. USA</i> 91(11):5022-5026 (1994).	
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		PILLAI, et al., "Photoremovable protecting groups in organic synthesis," <i>Synthesis</i> 1-26 (1980).	
		POKROVSKAYA & GUREVICH, "In vitro transcription: preparative RNA yields in analytical scale reactions," <i>Anal Biochem.</i> 220(2):420-3 (1994).	
		PRAKASH & KOOL, "Structural effects in the recognition of DNA by circular oligonucleotides," <i>J. Amer. Chem. Soc.</i> 114:3523-3527 (1992).	
		RAMSING, et al., "Helix-coil transition of parallel-stranded DNA. Thermodynamics of hairpin and linear duplex oligonucleotides," <i>Biochem.</i> 28:9528-9535 (1989).	
		RICHARDS, et al., "Conditional mutator phenotypes in hMS2H2-deficient tumor cell lines," <i>Science</i> 277:1523-1526 (1997).	

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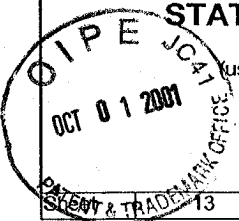
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Application Number	09/396,284 09/853,379
Filing Date	September 15, 1999 May 11, 2001
First Named Inventor	Paul M. Lizardi
Group Art Unit	1643-
Examiner Name	
Attorney Docket Number	YU 124 (OCR 847) 25006.00054B

OTHER ART - NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		RIED, et al., "Simultaneous visualization of seven different DNA probes by in situ hybridization using combinatorial fluorescence and digital imaging microscopy," <i>Proc Natl Acad Sci U S A</i> . 89(4):1388-92 (1992).	
		RIGLER & ROMANO, "Differences in the Mechanism of Stimulation of T7 DNA Polymerase by Two Binding Modes of <i>Escherichia coli</i> Single-stranded DNA-binding Protein," <i>Journal of Biological Chemistry</i> , 270(15): 8910-8919 (1995).	
		RYCHLIK, et al., "Optimization of the annealing temperature for DNA amplification <i>in vitro</i> ," <i>Nucleic Acids Research</i> 18(21): 6409-6412 (1990).	
		RYS & PERSING, "Preventing false positives: quantitative evaluation of three protocols for inactivation of polymerase chain reaction amplification products," <i>J Clin Microbiol</i> . 31(9):2356-60 (1993).	
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		SCHENA, et al., "Parallel human genome analysis: Microarray-based expression monitoring of 1000 genes," <i>Proc. Natl. Acad. Sci. USA</i> 91:10614-10619 (1994).	
		SCHENBORN & MEIRENDORF, "A novel transcription property of SP6 and 17 RNA polymerases: dependence on template structure," <i>Nucleic Acids Research</i> 13(17):6223-6236 (1985).	

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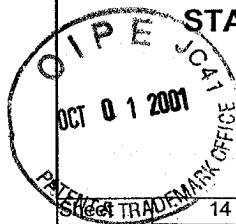
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Application Number	09/396,281- 09/853,379
Filing Date	September 15, 1999 May 11, 2001
First Named Inventor	Paul M. Lizardi
Group Art Unit	1643
Examiner Name	
Attorney Docket Number	YU 124 (OCR 847) 25006.000503

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		SCHWARZ, et al., "Improved yields of long PCR products using gene 32 protein," <i>Nucl. Acid Res.</i> 18:1079 (1989).	
		SIEGAL, et al., "A Novel DNA Helicase from Calf Thymus," <i>Journal of Biological Chemistry</i> 267(19): 13629-13635 (1992).	
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		SPEICHER, et al., "Karyotyping human chromosomes by combinatorial multi-fluor FISH," <i>Nature Genetics</i> 12(4): 368-375 (1996).	
		STIMPSON, et al., "Real-time detection of DNA hybridization and melting on oligonucleotide arrays by using optical wave guides," <i>Proc. Natl. Acad. Sci. USA</i> 92(14):6379-6383 (1995).	
		STRAUSS & JACOBOWITZ, "Quantitative measurement of calretinin and beta-actin mRNA [correction of mRNA] in rat brain micropunches without prior isolation of RNA," <i>Mol Brain Res.</i> 20(3):229-39 (1993).	
		STUDIER, et al., "Use of T7 RNA Polymerase to Direct Expression of Cloned Genes," <i>Methods in Enzymology</i> 185: 60-89 (1990).	
		SYVANEN, et al., "Fast quantification of nucleic acid hybrids by affinity-based hybrid collection," <i>Nucleic Acids Res.</i> 14(12):5037-48 (1986).	
		TABOR & RICHARDSON, "Selective inactivation of the exonuclease activity of bacteriophage T7 DNA polymerase by <i>in vitro</i> mutagenesis," <i>J. Biol. Chem.</i> 264:6447-6458 (1989).	
		TABOR & RICHARDSON, "Selective oxidation of the exonuclease domain of bacteriophage T7 DNA polymerase," <i>J. Biol. Chem.</i> 262:15330-15333 (1987).	

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Application Number	09/396,284- 09/853,379
Filing Date	September 15, 1999- May 11, 2001
First Named Inventor	Paul M. Lizardi
Group Art Unit	1643-
Examiner Name	
Attorney Docket Number	YU-124(OCR-847)- 25006-000513

OTHER ART - NON-PATENT LITERATURE DOCUMENTS

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		TAYLOR, ed, <u>Protein immobilization: fundamentals and applications</u> (M. Dekker, New York, 1991).	
		TSURUMI, et al., "Functional Interaction between Epstein-Barr Virus DNA Polymerase Catalytic Subunit and Its Accessory Subunit In Vitro," <i>Journal of Virology</i> 67(12):7648-7653 (1993).	
		TYAGI & KRAMER, "Molecular beacons: probes that fluoresce upon hybridization," <i>Nature Biotechnology</i> 14:303-308 (1996).	
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		VOGELSTEIN, et al., "Supercoiled loops and eucaryotic DNA replicaton," <i>Cell</i> . 22(1 Pt 1):79-85 (1980).	
		WAGGONER, "Covalent labeling of proteins and nucleic acids with fluorophores," <i>Meth. Enzymology</i> 246:362-373 (1995)	
		WALKER, et al., "Strand displacement amplification--an isothermal, in vitro DNA amplification technique," <i>Nucleic Acids Res.</i> 20(7):1691-6 (1992).	
		WALTER & STRUNK, "Strand displacement amplification as an in vitro model for rolling-circle replication: deletion formation and evolution during serial transfer," <i>Proc Natl Acad Sci U S A.</i> 91(17):7937-41 (1994).	
		WANSINK, et al., "Fluorescent Labeling of Nascent RNA Reveals Transcription by RNA Polymerase II in Domains Scattered Throughout the Nucleus," <i>Journal of Cell Biology</i> 122(2): 283-293 (1993).	
		WELFORD, et al., "Detection of differentially expressed genes in primary tumor tissues using representational differences analysis coupled to microarray hybridization," <i>Nucleic Acids Res.</i> 26(12):3059-65 (1998).	

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Application Number	09/396,284 09/853,379
Filing Date	September 15, 1999 May 11, 2001
First Named Inventor	Paul M. Lizardi
Group Art Unit	1643
Examiner Name	
Attorney Docket Number	YU 424 (OCR 847) 25006.0005U3

OTHER ART -- NON PATENT LITERATURE DOCUMENTS

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		WIEDMANN, et al., "Ligase Chain Reaction (LCR) - Overview and Applications," <i>PCR Methods and Applications</i> (Cold Spring Harbor Laboratory Press, Cold Spring Harbor Laboratory, NY, 1994) pages S51-S64.	
		WINN-DEEN, et al., "Non-radioactive detection of Mycobacterium tuberculosis LCR products in a microtitre plate format," <i>Molecular and Cellular Probes</i> (England) 7(3):179-186 (1993).	
		YANG, et al., "Combining SSH and cDNA microarrays for rapid identification of differentially expressed genes," <i>Nucleic Acids Res.</i> 27(6):1517-23 (1999).	
		YOUNG & ANDERSON, "Quantitative analysis of solution hybridisation," <i>Nucleic Acid Hybridisation: A Practical Approach</i> pages 47-71 (IRL Press, 1985).	
		YU, et al., "Cyanine dye dUTP analogs for enzymatic labeling of DNA probes," <i>Nucleic Acids Research</i> 22(15): 3226-3232 (1994).	
		ZEHAVI, et al., "Light sensitive glycosides. I. 6-Nitroveratryl β-D-Glucopyranoside and 2-Nitrobenzyl β-D-Glucopyranoside," <i>J. Organic Chem.</i> 37:2281-2288 (1972).	
		ZHU & ITO, "Purification and characterization of PRD1 DNA polymerase," <i>Biochimica Biophysica Acta</i> 1219(2): 267-276 (1994).	
		ZIJDERVELD & VAN DER VLIET, "Helix-Destabilizing Properties of the Adenovirus DNA-Binding Protein," <i>Journal of Virology</i> 68(2):1158-1164 (1994).	

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Application Number	09/396,284- 09/853,379
Filing Date	September 16, 1999 May 11, 2001
First Named Inventor	Paul M. Lizardi
Group Art Unit	4643-
Examiner Name	
Attorney Docket Number	YU-124 (GGR-847) 25006, 000503

Sheet 1 of 2

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		5,795,714		Cantor, et al.	08-18-1998	

FOREIGN PATENT DOCUMENTS

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		GB	2 332 516	A	Hewlett-Packard Company	06-23-1999		
		WO	97/20948	A1	Koch	06-12-1997		
		WO	97/43447	A1	Motorola, Inc.	11-20-1997		
		WO	98/14610	A2	The Perkin-Elmer Corp.	04-09-1998		
		WO	98/39485	A2	The Regents of the University of Michigan	09-11-1998		
		WO	99/53102	A1	Packard Bioscience Co.	10-21-1999		

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Filing Date	September 15, 1999 May 11, 2001
First Named Inventor	Paul M. Lizardi
Group Art Unit	1643
Examiner Name	
Attorney Docket Number	YU-124 (OCR-847)-25006.000543

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		CHEN & RUFFNER, "Amplification of closed circular DNA <i>in vitro</i> ," <i>Nucleic Acids Res.</i> 26:1126-27 (1998).	
		ZHANG, et al., "Amplification of target-specific, ligation-dependent circular probe," <i>Gene</i> 211:277-85 (1998).	

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